

CLAIMS

What is claimed is:

1. A system for applying a layer of foam, comprising:
 - 5 a first fluid supply supplying a first stream of a first fluid in a first supply line;
 - a first flow divider splitting said first stream into primary and secondary streams;
 - 10 a second fluid supply supplying a second fluid in a second supply line;
 - a second flow divider splitting said second stream into primary and secondary streams;
 - a first mix head combining said primary stream of said first fluid with said primary stream of said second fluid; and
 - 15 a second mix head combining said secondary stream of said first fluid with said secondary stream of said second fluid.
- 15 2. The system according to claim 1 wherein the foam is a froth foam.
3. The system according to claim 1, further including at least one recycle line from at least one of said flow dividers to at least one of said fluid supplies.
4. A method for applying a layer of froth foam, comprising:
 - 20 a) providing first and second fluid streams;
 - b) dividing each of said first and second fluid streams into a desired number of split streams; and
 - c) combining selected ones of said split streams so as to form a plurality of mixed streams having substantially the same composition.
5. The system according to claim 4, further including the step of recycling fluid from at least one split stream.
- 25 6. The method according to claim 4 wherein step c) includes controlling the relative volume proportions of said split streams.
7. The method according to claim 4, further including the step of providing a desired pressure drop in step b).
- 30 8. The method according to claim 4, further including the step of ejecting each of the mixed streams through a nozzle.
9. The method according to claim 8 wherein there are four mixed streams and there are four nozzles.
10. A method for applying a layer of froth foam, comprising:

- a) providing first and second fluid streams;
- b) dividing each of said first and second fluid streams into a desired number of split streams;
- c) combining selected ones of said split stream; and
- d) ejecting each of the mixed streams through a nozzle.

5 11. The system according to claim 10, further including the step of recycling fluid from at least one split stream.

10 12. The method according to claim 10, wherein step c) includes controlling the relative volume proportions of said split streams so as to form a plurality of mixed streams, each mixed stream having a desired composition.

13. The method according to claim 10, further including the step of providing a desired pressure drop in step b).

14. The method according to claim 10 wherein there are four mixed streams and there are four nozzles.